CATALOGUE

OF THE

NEUROPTEROID INSECTS

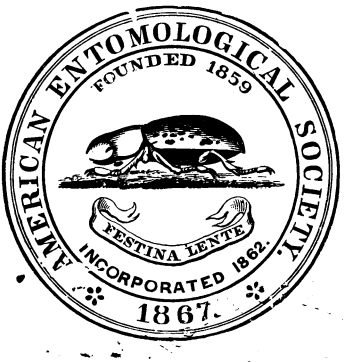
(EXCEPT ODONATA)

OF THE

UNITED STATES

BY

NATHAN BANKS



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PREFACE.

In 1892 I published in the "Transactions of the American Entomological Society" a synopsis, catalogue and bibliography of our Neuropteroid insects. During the fifteen years that have elapsed since then a large number of species have been described and several families have been the subject of revision. Abroad there has also been an awakening in the study of both European and exotic Neuropteroid insects; so that now we know much better the genera, as well as the species, of Europe and tropical countries. All this has helped in the study of our forms, and although there are many families yet to be revised, still the condition of our knowledge of our Neuropteroid insects is to-day on a plane fairly comparable to that of most other orders of insects.

These additions of the last fifteen years are widely scattered in our literature, and to bring them in catalogue form together with the older species will, I hope, facilitate the study of these insects.

The various groups of Neuropteroid insects are so strikingly different, one from the other, that many entomologists have regarded each of the older families as an order. Extreme views are hardly suitable for a catalogue, so I have here adopted five orders, which are now in fairly common use. These are the Isoptera or white ants, the Corrodentia, the Archiptera or Pseudoneuroptera, the Neuroptera, now restricted, and the Trichoptera, or caddice-flies. Under these terms I place some other groups as suborders, superfamilies, etc. I have not included the Odonata, or dragon-flies, in this catalogue, partly because I have not studied them recently, and partly because those who do study them take but little interest in the other groups. They will constitute another order, Odonata, closely related to the mayflies. Altogether there are nearly 900 species listed in this catalogue, arranged under 210 genera. The catalogue may be considered complete up to the summer of 1907.

LOCALITIES.

E. S. = Eastern States; N. E. S. = Northeastern States; S. W. S. = Southwestern States; U. S. = United States, etc.

CATALOGUE

OF THE

NEUROPTEROID INSECTS.

Order ISOPTERA Brullé.

TERMITIDÆ.

CALOTERMES.

Hagen, Sitzber, Akad. Wiss. Berlin, 1858, 480.

castaneus Burm., Handb. ii, 764, 1839 (*Termes*); Hagen, Linn. xii, 38, 1857.—W. S.

anticus Walk., B. M. Cat. Neur. 523, 1853.

guatimalæ Walk., B. M. Cat. Neur., 528, 1853.

marginepennis Latr., Humboldt, Recueil Zool. ii, iii, 1811-32 (*Termes*); Hagen, Linn. xii, 47, 1857.—S. W. S.

mexicanus Walk., B. M. Cat. Neur., 528, 1853 (*Termes*).

CRYPTOTERMES.

Banks, Ent. News, 1906, 336.

cavifrons Banks, Ent. News, 1906, 337.—Fla.

EUTERMES.

Hagen, Linn. Entom. xii, 186, 1857.

nigriceps Hald., Proc. Acad. Nat. Sci. Phila. 1853, 365; Hagen, Linn. xii, 230, 1857; Neur. N. Am. 6, 1861.

TERMES.

Linné, Syst. nat. xiii, 2911, 1793.

cinereus Buckley, Proc. Ent. Soc. Phila. i, 212, 1862; Desneux, Ann. Soc. Ent. Belg. 1905, 342.—Tex.

flavipes Kollar, Naturgesch. schädl. Ins. 411, 1837; Burm., Handb. ii, 768, 1839; Hagen, Linn. xii, 182, 1857; xiv, 107, 1860; Neur. North. Amer. 3, 1861.—U. S.

frontale Hald., Proc. Acad. Nat. Sci. Phila. 1844, 55.

lucifugus Rossi, Mant. Ins. Etrusc. i, 107, 1792; Hagen, Linn. xii, 174, 1857; Sjost., Kgl. Svensk. Vet. Akad. Handl. 34, No. 4, 138, 1900.—W. S.

tenuirostris Desneux, Ann. Soc. Ent. Belg. 1904, 288; 1905, 341.—Tex.

tubiformans Buckley, Proc. Ent. Soc. Phila. i, 213, 1862; Desneux, Ann. Soc. Ent. Belg. 1905, 338.—Tex., N. Mex.

wheeleri Desneux, Ann. Soc. Ent. Belg. 1905, 340.—Tex.

TERMOPSIS.

Heer, Insektenfauna von Œningen, ii, 23, 1849.

angusticollis Hag., Linn. xii, 75, 1857; Syn. Neur. N. Am. 3, 1861; Bull. Geol. Surv. Terr. 1875, 571.—W. S.

castaneus Walk., B. M. Cat. Neur. 506, 1853 (nec. Burm.).

laticeps Banks, Ent. News, 1906, 337.—Ariz.

EMBIDÆ.

EMBIA.

Latreille, Fam. Nat. R. Anim. 437, 1825.

californica Banks, Trans. Amer. Ent. Soc. xxxii, p. 1, 1905.—Cal.

hubbardi Hag., Can. Ent. 1885, 142.—Fla. (*Oligotoma*).

texana Melander, Biol. Bull. iii, 19, 1902.—Tex.

Order CORRODENTIA Burmeister.

PSOCIDÆ.

ATROPINÆ.

TROCTES.

Burmeister, Handb. ii, 773, 1839.

bicolor Banks, Ent. News, 1900, 559.—Va., Ill.

bicolor Enderl., Zool. Jahrb. Syst. xviii, p. 361, 1903.

divinatorius Müll., Zool. Dan. Prod 184, 1776 (*Termes*); Fabr., Fauna Grœnl. 214, 1780; Hagen, Syn. Neur. N. Am. 8, 1861; Stett. Ent. Zeit. 1883, 289.—U. S.

pulsatorius Latr., Coq. Ill. Icon. Ins. 1799 (not Linné).

niger Banks, Ent. News, 1900, 560.—Va.

purpurea Aaron, Trans. Amer. Ent. Soc. xi, 37, 1883.

STENOTROCTES.

Enderlein, Jägerskiöld Exped. No. 18, 43, 1905.

needhami Enderl., Zool. Jahrb. Syst. xviii, p. 360, 1903 (*Troctes*); Jägerskiöld Exped. No. 18, 44, 1905.—Ill.

LEPIDILLA.

Ribaga, Redia, ii, 99, 1904.

kelloggi Ribaga, Redia, ii, p. 100, 1904.—Cal.

ATROPOS.

Leach, Edin. Ency. ix, 139, 1815.

Clothilla Westw., Mag. Nat. Hist., vi, 480, 1841.

pulsatoria Linn., Faun. Suec. 2, 474, 1761 (*Termes*); Hagen, Stett. Ent. Zeit. 1883, 300; Enderlein, Jägerskiöld Exped. No. 18, 14, 1905.

MYOPSOCNEMA.

Enderlein, Jägerskiöld Exped. No. 18, 17, 1905.

annulata Hag., Ent. Mo. Mag. ii, 122, 1865; Stett. Ent. Zeit. 1883, 307; Enderlein, Jägerskiöld Exped. No. 18, 17, 1905.—E. S.

HYPERETES.

Kolbe, J. B. zool. Sect. Westfal. Ver. 1879-80, 132.

tessulatus Hag., Stett. Ent. Zeit. 1883, 316.—N. S.

DORYPTERYX.

Aaron, Trans. Amer. Ent. Soc. xi, 37, 1883.

hageni Banks, Amer. Natur. 1897, 382.—Ky.
pallida Aaron, Trans. Amer. Ent. Soc. xi, 38, 1883.—Pa., N. Y., D. C.

LEPINOTUS.

Heyden, Stett. Ent. Zeit. xi, 84, 1850.

Paradoxoides Motsch., Bull. Moscou, xxiv, 510, 1851.

inquilinus Heyden, Stett. Ent. Zeit. 1850, 84; Hag., Stett. Ent. Zeit. 1883, 309; Enderlein, Jägerskiöld Exped. No. 18, 25, 1905.—U. S.

psocoides Motsch., Bull. Moscou, xxiv, 510, 1851.
picea Hag., Syn. Neur. N. Amer. 8, 1851.

PSOCINELLA.

Banks, Ent. News, 1900, 431.

slossonæ Ent. News, 1900, p. 432.—Fla.

PSOCINÆ.

OCELLATARIA.

Weber, Ent. News, 1907, 189.

gravinympha Weber, Ent. News, 1907, 189.—Penna.

AMPHIENTOMUM.

Hagen, Verh. zool. bot. Ges. Wien. 1866, 203.

Echmepteryx Aaron, Proc. Acad. Nat. Sci., Phil. 1886, 17.

hageni Pack., Proc. Bost. Soc. Nat. Hist. 1871, 405.—E. S.

agilis Aaron, Proc. Acad. Nat. Sci. Phil. 1886, 17.

PTERODELA.

Kolbe, J. B., zool. Sect. Westfal. Ver. 1879-80, 118.

pedicularis Linn., Faun. Suec. 2, 384, 1761 (*Hemerobius*); Hagen, Psyche iii, 1881, 195.—U. S.

salicis Fitch, MSS. Hag. Neur. N. Am. 13, 1861.
geologus Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 362.
pusillus Harr., Ent. Corr. 331, 1869.

rufus Walsh, Proc. Ent. Soc. Phil. 1863, 185 (*Psocus*).—E. S.

CÆCILIUS.

Curtis, Brit. Entom. pl. 648, 1837.

aurantiacus Hag., Syn. Neur. N. A. 14, 1861 (*Psocus*).—U. S.
confluens Walsh, Proc. Ent. Soc. Phil. 1863, 185.—Ill.
definitus Aaron, Trans. Amer. Ent. Soc. xi, 38, 1883.—Pa.
flavidus Prov., Pet. Faun. Can. Neurop. 64, 1883 (*Psocus*).—Can.
impactus Aaron, Proc. Acad. Nat. Sci. Phil. 1886, 14.—Pa.
nubilus Aaron, Proc. Acad. Nat. Sci. Phil. 1886, 13.—Tex.
pinicola Banks, Journ. N. Y. Ent. Soc. 1903, 238.—Va.
subflavus Aaron, Proc. Acad. Nat. Sci. Phil. 1886, 13.—Tex.

PERIPSOCUS.

Hagen, Verh. zool.-bot. Ges. Wien, 1866, 203.

californicus Banks, Journ. N. Y. Ent. Soc. 1903, 237.—Cal.
fumosus Banks, Journ. N. Y. Ent. Soc. 1903, 237.—Colo.
madescens Walsh, Proc. Ent. Soc. Phil. 1863, 186 (*Psocus*).—Ill.
madidus Hag., Syn. Neur. N. A. 12, 1861 (*Psocus*).—E. S.
permadidus Walsh, Proc. Ent. Soc. Phil. 1863, 185 (*Psocus*).—E. S.

MESOPSOCUS.

Kolbe, Jahrber., Westfal. Provinzialver. 1880, 112.

unipunctatus Müll., Faun. Ins. Friedr. 66, 1764; Hagen, Psyche, iii, 207, 1881.—N. S.
signatus Hag., Neur. N. Am. 9, 1861 (*Psocus*).
gracilis Harr., Ent. Corr. 332, 1869 (*Psocus*).

ELIPSOCUS.

Hagen, Verh. zool.-bot. Ges. Wien. 1866, 203.

canadensis Prov., Nat. Canad. x, 124, 1875; Pet. Faun. Canad. Neuropt. 65, 1883.—E. S.
conterminus Walsh, Proc. Ent. Soc. Phil. 1863, 185 (*Psocus*).—E. S.
maculosus Aaron. Trans. Amer. Ent. Soc. xi, 40, 1883.—Pa.
occidentalis Banks, Journ. N. Y. Ent. Soc. 1907, 166.—Vanc. Isl.
pumilis Hag., Syn. Neur. N. A. 9, 1861 (*Psocus*).—N. Y.
punctatus Banks, Trans. Amer. Ent. Soc. xxxii, p. 1, 1905.—Calif.

POLYPSOCUS.

Hagen, Verh. zool.-bot. Ges. Wien. 1866, 203.
Enderlein, Zool. Jahrb. Syst. xiv, 153, 1900.
Ptilopsocus Enderlein, Zool. Jahrb. Abt. Syst. xiv, 150, 1900.

annulicornis Banks, Journ. N. Y. Ent. Soc. 1903, p. 238 (*Ptilopsocus*).—Va.
corruptus Hag., Neur. N. Am. 13, 1861 (*Psocus*).—E. S.
abruptus Hag., Neur. N. Am. 13, 1861.

MYOPSOCUS.

Hagen, Verh. zool.-bot. Ges. Wien. 1866, 203.

coloradensis Banks, Journ. N. Y. Ent. Soc. 1907, 164.—Colo.
lugens Hag., Neur. N. Am. 9, 1861 (*Psocus*).—E. S.
nubilus Harr., Ent. Corr. 331, 1869.
sparsus Hagen, Syn. Neur. N. Am. 8, 1861; Prov., Pet. Faun. Canad. Neuropt. 63, 1883.—E. S.
infuscatus Harris, Ent. Corr. 332, 1869.
virginianus Banks, Trans. Amer. Ent. Soc. xxvi, 239, 1900 (*Psocus*).—Va., D. C.

PSOCUS.

Latreille, Bull. Soc. Philom. i, 85, 1794.
Amphigerontia Kolbe, J. B. zool. Sect. Westfal. Ver. 1879–80, 104.
Blaste Kolbe, Stett. Ent. Zeit. 1883, 79.

amabilis Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 362.—Ill.
atratus Aaron, Trans. Amer. Ent. Soc. xi, 39, 1883.—Pa., Va.

bisignatus Banks, Proc. Ent. Soc. Wash. vi, p. 203, 1904.—Va.
californicus Banks, Trans. Amer. Ent. Soc. xxxii, p. 2, 1905.—Cal.
campestris Aaron, Proc. Acad. Nat. Sci. Phil. 1886, 15.—Tex.
citricola Ashm., Can. Ent. 1879, 228.—Fla.
cockerelli Banks, Trans. Amer. Ent. Soc. xxx, p. 100, 1904.—N. Mex.
confraternus Banks, Trans. Amer. Ent. Soc. xxxii, p. 2, 1905.—E. S.
bifasciatus Walsh, Proc. Ent. Soc. Phil. 1863, 183 (not Stephens).
conspersus Banks, Proc. Ent. Soc. Wash. v, p. 237, 1903.—Ariz., Colo.
elegans Banks, Proc. Ent. Soc. Wash. yi, p. 203, 1904.—Va.
floridanus Banks, Trans. Amer. Ent. Soc. xxxii, p. 2, 1905.—Fla.
genualis Banks, Journ. N. Y. Ent. Soc. 1903, p. 236.—Tex.
hageni Banks, Proc. Ent. Soc. Wash. vi, 202, 1904.—E. S.
contaminatus Hagen, Syn. Neur. N. Am. 10, 1861 (not Stephens).
infumatus Banks, Journ. N. Y. Ent. Soc. 1907, 165.—Va.
inornatus Aaron, Trans. Amer. Ent. Soc. xi, 39, 1883.—Pa.
juvenilis Kolbe, Stett. Ent. Zeit. 1883, 80 (*Blaste*).—Pa.
leidyi Aaron, Proc. Acad. Nat. Sci. Phil. 1886, 15.—E. S.
lichenatus Walsh, Proc. Ent. Soc. Phil. 1863, 183; Hag., Psyche iii, 223, 1881. —Ill.
lucidus Harr., Ent. Corr. 328, 1869.—Mass.
medialis Banks, Journ. N. Y. Ent. Soc. 1907, 165.—Fla.
minusculus Banks, Trans. Amer. Ent. Soc. xxxii, p. 3, 1905.—Va.
mobilus Hag., Syn. Neur. N. A. 12, 1861.—Ala. (?)
moderatus Banks, Journ. N. Y. Ent. Soc. 1907, 165.—Me.
moestus Hag., Neur. N. Am. 11, 1861; Psyche iii, 1881, 223.—E. S.
novæscotiæ Walk., B. M. Cat. Neur. 485, 1853; Hag., Syn. Neur. N. A. 11, 1861; Prov., Pet. Faun. Canad. Néuropt. 64, 1883.—N. S.
oppositus Banks, Journ. N. Y. Ent. Soc. 1907, 165.—Va.
oregonus Banks, Trans. Amer. Ent. Soc. xxvi, 239, 1900.—Oreg.
perplexus Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 361.—Ill., Va.
pollutus Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 361.—Ill., Va.
purus Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 361.—Ill., Va.
quietus Hag., Syn. Neur. N. A. 12, 1861.—N. Y., Ga.
quadrifasciatus Harr., Ent. Corr. 331, 1869.—Mass.
semistriatus Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 361.—E. S.
sexpunctatus Linn., Syst. Nat. x, 550, 1758; Aaron, Trans. Am. Ent Soc. xi, 39, 1883.—Pa.
slossonæ Banks, Journ. N. Y. Ent. Soc. 1903, p. 236.—E. S.
striatus Walk., B. M. Cat. Neur. 486, 1853; Hag., Neur. N. Am. 11, 1861.—E. S.
frontalis Harr., Ent. Corr. 330, 1869.
submarginatus Aaron, Proc. Acad. Nat. Sci. Phil. 1886, 16 (as var. of *P. texana*). —Tex., Fla.
texana Aaron, Proc. Acad. Nat. Sci. Phil. 1886, 16.—Tex.
variabilis Aaron, Trans. Amer. Ent. Soc. xi, 38, 1883.—Pa., D. C., Va.

CERASTIPSOCUS.

Kolbe, Berl. Ent. Zeit. 1884, 38.

Cerastis Kolbe, Stett. Ent. Zeit. 1883, 65 (preoc).
gossypii Ashmead, Insect Life, vii, 29, 1894 (*Psocus*).—Ala.

trifasciatus Prov., Pet. Faun. Can. Néurop. 65, 1883 (*Psocus*).—E. S.
speciosus Aaron, Trans. Amer. Ent. Soc. xi, 40, 1883.
nigrofasciatus Kolbe, Stett. Ent. Zeit. 1883, 70; Enderlein, ibid, 1906, 318.
venosus Burm., Handb. ii, 778, 1839 (*Psocus*); Hag., Syn. Neur, N. A. 10. 1861. —U. S.
magnus Walk., B. M. Cat. Neur. 484, 1853.
microphthalmus Rambr., Néuropt. 321, 1842.
gregarius Harr., Ent. Corr. 329, 1869.

Order ARCHIPTERA Laporte.

Suborder PLECOPTERA Burmeister.

PERLIDÆ.

PTERONARCYS.

Newman, Ent. Mag. v, 175, 1838.

Kollaria Pictet, Perlides, 121, 1841.
biloba Newm., Ent. Mag. v, 176, 1838; Pict., Perlides, 135, 1841; Hagen, Syn. Neur. N. Am. 15, 1861; Proc. Bost, Soc. Nat. Hist. xv, 284, 1873.—N. S.
bicarinatus Prov., Pet. Faun. Can. Néurop. 69, 1883.
californica Newp., Trans. Linn. Soc. London. xx, 450, 1851; Hagen, Syn. Neur. N. A. 16, 1861; Proc. Bost. Soc. N. H. xv, 283, 1873.—N. S.
dorsata Say, West. Quart. Rept. 1823, 164 (*Perla*); LeConte Ed. i, 174, 1859; Hagen, Syn. Neur. N. Am. 20, 1861.—Pa.
nobilis Hagen, Syn. Neur. N. A. 15, 1861; Proc. Bost. Soc. N. H. xv, 285, 1873. —N. Y., Tenn.
pictetii Hag., Proc. Bost. Soc. Nat. Hist. xv, 286, 1873; Prov., Petite Faun. Canad. Néuropt. 70, 1883.—N. E. S.
proteus Newm., Ent. Mag. v, 177, 1838; Hagen, Syn. Neur. N. A., 14, 1861; Proc. Bost. Soc. N. H., xv, 281, 1873.—N. S.
rectus Prov., Pet. Faun. Can. Néurop. 68, 1883.—Can.
regalis Newm., Ent. Mag., v, 176, 1838; Pict., Perlides, 134, 1841; Hag., Neur. N. Am. 15, 1861; Proc. Bost. Soc. Nat. Hist. xv, 286, 1873.—N. S.
insignis Pict., Perlides, 123, 1841 (*Kollaria*).
flavicornis Prov., Pet. Faun. Can. Néurop. 70, 1883.—U. S.
spinosa Banks, Proc. Ent. Soc. Wash. viii, p. 8, 1906.—W. S.

PTERONARCELLA.

Banks, Trans. Amer. Ent. Soc., xxvi, 242, 1900.

regularis Hag., Bull. Geol. Surv. Terr. 1875, 573 (*Pteronarcys*).—W. S.
badia Hag., Bull. Geol. Surv. Terr. 1875, 573 (*Pteronarcys*).—W. S.

PERLODES.

Banks, Ent. News, 1903, 241.

Dictyopteryx Pict. 1841, nec Stephens, 1829.
irregularis Banks, Trans. Amer. Ent. Soc. xxvi, 243, 1900.—W. S.
signata Hag., Bull. Geol. Surv. Terr. 1875, 575.—W. S.

ACRONEURIA.

Pictet, Perlides, 144, 1841.

abnormis Newm., Ent. Mag. v, 177, 1838 (*Perla*); Pictet, Perlides, 180, 1841; Hagen, Syn. Neur. N. Am. 17, 1861.—N. S.

pennsylvanica Rambr., Néuropt. 456, 1842.
internata Walk., B. M. Cat. 152, 1852.
trijuncta Walk., B. M. Cat. 153, 1852.
sonans Newp., Trans. Linn. Soc. Lond. xx, 447, 1851.

arenosa Pict., Perlides, 178, 1841 (*Perla*).—E. S.
arida Hag., Syn. Neur. N. A. 18, 1861; Prov., Petite Faun. Canad. Néuropt. 72, 1883.

hieroglyphica Prov., Pet. Faun. Can. Néurop. 72, 1883 (*Perla*).—Can.

navalis Prov., Pet. Faun. Can. Néurop. 73, 1883 (*Perla*).—Can.

nigrita Banks, Trans. Amer. Ent. Soc. xxx, p. 98, 1904.—W. S.

pacifica Banks, Trans. Amer. Ent. Soc. xxvi, 242, 1900.—W. S.

pumila Banks, Canad. Entom. 1906, 335.—Cal.

riparia Prov., Pet. Faun. Can. Néurop. 74, 1883 (*Perla*).—Can.

rupinsulensis Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 363 (*Perla*).—Ill.
quebecensis Prov., Pet. Faun. Can. Neur. 72, 1883.

ISOGENUS.

Newman, Ent. Mag. i, 415, 1833.
Nephelion Pictet, Perlides, 144, 1841.

clio Newm., Ann. Mag. Nat. Hist. iii, 1839, 86; Hagen, Neur. N. Am. 19, 1861; Hagen, Stett. Ent. Zeit. 1863, 371.—Ga.

colubrinus Hag., Bull. Geol. Surv. Terr. 1875, 576.—W. S.

drymo Newm., Ann. Mag. Nat. Hist. iii, 1839, 86; Hagen, Neur. N. Am. 19, 1861; Hagen, Stett. Ent. Zeit. 1863, 371.—Ga.

elongatus Hag., Bull. Geol. Surv. Terr. 1875, 576.—W. S.

frontalis Newm., Ent. Mag. v, 178, 1838; Pict., Perlides, 172, 1841 (*Nephelion*); Hag., Neur. N. Am. 18, 1861.—N. S.
bicaudata Kirby, Fauna. Bor. Am. 252, 1837 (nec Linn).
sulcata Prov., Pet. Faun. Can. Néurop. 74, 1883.—Can.

PERLA.

Geoffroy, Hist. Ins. ii, 229, 1764.

americana Banks, Trans. Amer. Ent. Soc. xxvi, 243, 1900.—E. S.

annulipes Hag., Syn. Neur. N. A. 22, 1861.—E. S.

attenuata Banks, Psyche, 1905, p. 55.—Kans.

californica Banks, Inverteb. Pacifica i, 87, 1905; Trans. Amer. Ent. Soc. xxxii, 3, 1905.—Cal.

capitata Pict., Perlides, 214, 1841; Hagen, Syn. Neur. N. A. 22, 1861.—N. S.

carolinensis Banks, Bull. Amer. Mus. Nat. Hist. xxi, 215, 1905; Trans. Amer. Ent. Soc. xxxii, 3, 1905.—N. Car.

couloni Pict., Perlides, 212, 1841; Hag., Syn. Neur. N. Am. 20, 1861.—E. S.

decipiens Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 364.—E. S.

ephyre Newm., Ann. Mag. Nat. Hist. iii, 1839, 87; Pict., Perlides, 283, 1841; Hag., Neur. N. Am. 28, 1861.—E. S.

flavescens Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 363.—E. S.
marginipes Prov., Pet. Faun. Can. Néurop. 73, 1883.

fumosa Banks, Can. Entom. 1902, 123.—D. C.

immarginata Say, West. Quart. Rept. 1823, 164; LeConte Ed. i, 174, 1859; Hagen, Syn. Neur. N. Am. 20, 1861.—Ohio.

kansensis Banks, Psyche, 1905, p. 56.—Kans.
luctuosa Banks, Canad. Entom. 1906, 336.—Cal.
lurida Hag., Syn. Neur. N. A. 21, 1861.—La.
lycorias Newm., Ann. Mag. Nat. Hist. iii, 1839, 85; Hag., Neur. N. Am. 21, 1861.—N. Y.
media Walk., B. M. Cat. Neur. 145, 1852; Hagen, Syn. Neur. N. A. 24, 1861.—Can.
naica Prov., Pet. Faun. Can. Néurop. 75, 1883.—Can.
olivacea Walk., B. M. Cat. Neur. 144, 1852; Hagen, Syn. Neur. N. A. 23, 1861.—Can.
picta Pict., Perlides, 261, 1841; Hagen, Syn. Neur. N. A. 27, 1861.—N. Am.
postica Walk., B. M. Cat. Neur. 144, 1852; Hagen, Syn. Neur. N. A. 23, 1861.—E. S.
sabulosa Banks, Trans. Amer. Ent. Soc. xxvi, 242, 1900.—Wash.
similis Hag., Syn. Neur. N. A. 26, 1861.—E. S.
sobria Hag., Bull. Geol. Surv. Terr. 1875, 577.—Colo.
tristis Hag., Syn. Neur. N. A. 22, 1861.—E. S.
valida Banks, Trans. Amer. Ent. Soc. xxxii, p. 4, 1905.—N. Car.
varians Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 364.—E. S.
xanthenes Newm., Ent. Mag. v, 178, 1838; Pictet, Perlides, 245, 1841; Hagen, Syn. Neur. N. A. 26, 1861.—E. S.

PELTOPERLA.

Needham, Proc. Biol. Soc. Wash. xviii, p. 107, 1905.

arcuata Needh., Proc. Biol. Soc. Wash. xviii, p. 108, 1905.—E. S.

PERLINELLA.

Banks, Trans. Amer. Ent. Soc. xxvi, 242, 1900.

elongata Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 366.—Ill.
trivittata Banks, Trans. Am. Ent. Soc. xxii, 313, 1895.—N. S.

PERLESTA.

Banks, Can. Entom. 1906, 222.

cinctipes Banks, Psyche, 1905, p. 56 (*Perlinella*).—Kans.
placida Hag., Syn. Neur. N. A. 28, 1861 (*Perla*).—E. S.
virginica Banks, Trans. Amer. Ent. Soc. xxv, 199, 1898.—Va., W. Va.

PARAPERLA.

Banks, Can. Entom. 1906, 222.

frontalis Banks, Can. Entom. 1902, 123 (*Perlinella*).—N. Mex.

ATOPERLA.

Banks, Psyche, 1905, p. 56.

producta Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 365 (*Perla*).—Ill.

NEOPERLA.

Needham, Proc. Biol. Soc. Wash. xviii, p. 108, 1905.
Pseudoperla Banks, Trans. Amer. Ent. Soc. xix, p. 332, 1892 (preoc.).

clymene Newm., Ann. Mag. Nat. Hist. iii, 1839, 87; Pict., Perlides, 283, 1841; Hag., Neur. N. Am. 29, 1861; Hagen, Stett. Ent. Zeit. 1863, 371.—Ga.
fumipennis Walsh, Proc. Acad. Nat. Sci. Phil. 1862, 366 (*Perla*).—Ill.
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